

IN THE CLAIMS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for searching for an access point for use by a mobile station, the apparatus comprising:

wireless LAN service determination means for determining whether or not there is an access point of a wireless LAN providing wireless data service based on broadcasting information targeting all mobile stations within a service area of ~~transmitted by~~ a base station; and

wireless LAN service means for searching for a beacon signal transmitted from the access point of the wireless LAN according to the determination result of the wireless LAN service determination means and the mobile station receiving the wireless data service from the access point of the wireless LAN based on the beacon signal.

2. (Original) The apparatus as recited in claim 1, wherein the mobile station is a dual mode mobile station having a wireless LAN module and a mobile communication module.

3. (Previously Presented) The apparatus as recited in claim 1, wherein the base station is installed by setting a predetermined service area based on a location in which the access point exists.

4. (Currently Amended) A method for searching for an access point for use by a mobile station, the method comprising the steps of:

a) obtaining broadcasting information targeting all mobile stations within a service area of, transmitted by a base station, by using a mobile communication module of the mobile station;

b) determining whether or not there is the wireless LAN access point providing services based on the obtained broadcasting information; and

c) receiving wireless data service from the wireless LAN access point by using a wireless LAN module which searches for a periodically transmitted beacon signal of the wireless LAN access point in case the wireless LAN access point exists.

5. (Previously Presented) The method as recited in claim 4, wherein the broadcast information includes information indicating presence of the wireless LAN access point and is periodically broadcasted to all mobile stations in a service area of the base station.

6. (Currently Amended) A computer readable recoding medium having executable instructions for implementing a method for searching for an access point for use by a mobile station, the method comprising the steps of:

a) obtaining broadcasting information targeting all mobile stations within a service area of transmitted by a base station, by a mobile communication module of the mobile station;

b) determining whether or not there is the wireless LAN access point providing services based on the obtained broadcasting information; and

c) the mobile station receiving wireless data service from the wireless LAN access point by using a wireless LAN module which searches periodically transmitted beacon signal of the wireless LAN access point in case the wireless LAN access point exists.

7. (Currently Amended) The apparatus as recited in claim 1, wherein the broadcasting information ~~transmitted from the base station~~ includes a conventional broadcast information and information indicating presence of the wireless LAN access point.

8. (Currently Amended) The method as recited in claim 4, wherein the broadcasting information ~~transmitted from the base station~~ includes a conventional broadcast information and information indicating presence of the wireless LAN access point.